The Well's Creek Basin in Stewart County
One Mile
Cumberland City
MISSISSIPPI RIVER
PLATEAU OR WEST TENNESSEE
WESTERN VALLEY OF THE TENNESSEE
THE HIGHLANDS
THE CENTRAL BASIN
THE CUMBERLAND TABLELAND
THE VALLEY OF EAST TENNESSEE
UNAKA CHAIN
OBION
WEAKLEY
HENRY
STEWART
MONTGOMERY
ROBERTSON
SUMNER
MACON
DYER
GIBSON
CARROLL
LAUDERDALE
HAYWOOD
MADISON
HENDERSON
TIPTON
SHELBY
FAYETTE
HARDEMAN
McNAIRY
HARDIN
WAYNE
LAWRENCE
DICKSON
HUMPHREYS
BENTON
DECATUR
PERRY
HICKMAN
LEWIS
WILLIAMSON
RUTHERFORD
CANNON
BEDFORD
COFFEE
LINCOLN
FRANKLIN
SMITH
OVERTON
PUTNAM
DE KALB
WHITE
WARREN
VAN BUREN
GRUNDY
SEQUATCHEE
MARION
BLEDSOE
CUMBERLAND
MORGAN
SCOTT
CAMPBELL
CLAIBORNE
HANCOCK
HAWKINS
SULLIVAN
JOHNSON
CARTER
WASHINGTON
GREENE
GRAINGER
UNION
KNOX
JEFFERSON
COCKE
SEVIER
BLOUNT
ROANE
RHEA
MEIGS
McMINN
MONROE
HAMILTON
BRADLEY
POLK
Nashville
Memphis
Knoxville
PROPOSED LINE R.R.
CLINCH Section
CHATTANOOGA Section
Plateau of West Tennessee
Highlands West Side
The Central Basin
Highlands East Side
The Cumberland Table Land
Tennessee Coal Field
The Valley of East Tennessee
Knobby Belt
Unaka Chain
Paint Mt. etc.
State Line
Warm Springs
Map of the PRINCIPAL FAULTS IN EAST TENNESSEE
Section across the Valley of East Tennessee from Cumberland Tableland to Unaka.
Cumberland Table land
Walden's Ridge
Poplar Cr.
Chestnut Ridge
Copper Ridge
Black Oak Ridge
Railroad
Bay's Mt.
Montvale Springs
Chilhowee Mt.
Unaka
5000.
Sea.

GEOLOGICAL
MAP OF
TENNESSEE

BY

J. M. SAFFORD, A.M., Ph.D.

1869

Scale: 12 miles to 1 inch.

TAINTOR BROTHERS,
PUBLISHERS,
678 Broadway, New York.

ABRIDGED TABLE OF TENNESSEE FORMATIONS.

13.	Alluvium,	*(Most recent and topmost.)*	🟫
12.	Bluff Group,	POST TERTIARY.	☐
	12, *b.* BLUFF LOAM,	" "	🟥
	12, *a.* BLUFF GRAVEL,	" "	☐
11.	Tertiary Group,	TERTIARY.	☐
	11, *c.* BLUFF LIGNITE, *(provisional,)*	" " ?	🟪
	11, *b.* ORANGE SAND, (or *La Grange Group,)*	" "	🟨
	11, *a.* PORTER'S CREEK GROUP, *(provisional,)*	" " ?	🟩
10.	Cretaceous,	CRETACEOUS.	🟩
	10, *c.* RIPLEY GROUP, *(provisional,)*	"	☐
	10, *b.* GREEN SAND, *(Shell bed,)*	"	☐
	10, *a.* COFFEE SAND,	"	☐
9.	Coal Measures,	CARBONIFEROUS.	▨
8.	Lower Carboniferous,	"	☐
	8, *b.* MOUNTAIN LIMESTONE,	"	☐
	8, *a.* SILICEOUS,	"	🟧
7.	Black Shale,	DEVONIAN.	☐
6.	Lower Helderberg,	UPPER SILURIAN.	🟨
5.	Niagara,	" "	☐
	5, *d.* MENISCUS LIMESTONE, *(Sneedville Lime,)*	" "	🟥
	5, *c.* DYESTONE GROUP,	" "	🟥
	5, *b.* WHITE OAK MT. SANDSTONES,	" "	☐
	5, *a.* CLINCH MT. SANDSTONE, *(Medina,)*	" "	🟧
4.	Nashville, or Nash,	LOWER SILURIAN.	🟦
3.	Trenton, or Lebanon,	" "	🟦
2.	Potsdam,	" "	☐
	2, *c.* KNOX, or KNOXVILLE,	" "	☐
	2, *c'''.* KNOX DOLOMITE,	" "	☐
	2, *c''.* KNOX SHALE,	" "	☐
	2, *c'.* KNOX SANDSTONE,	" "	☐
	2, *b.* CHILHOWEE SANDSTONE, *(Potsdam proper,)*	" "	🟩
	2, *a.* OCOEE GROUP, *(Eozoic,)*	" "	▨
1.	Metamorphic, *(Eozoic.)* *(Oldest and Lowest,)*	" "	🟥

A GEOLOGICAL SECTION FROM THE MISSISSIPPI RIVER THROUGH DYER COUNTY, NASHVILLE, SPARTA, KINGSTON, KNOXVILLE, NEWPORT, PAINT ROCK TO THE WARM SPRINGS IN NORTH CAROLINA

Vertical Scale, 2000 Feet to the inch, Horizontal, 12 miles to the inch. The great difference in scales makes the dip of the rocks in the Valley of East Tennessee appear much greater than it really is. — See notes on Map and Section in the Report.

FERD. MAYER & SONS, GENERAL LITH'S. 96 & 98 FULTON ST. N.Y.

Dyer Map Coll

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